



Introduction to NHSN



Basics of Infection Prevention
2-Day Mini-Course
October-November 2011

Objectives

- Introduce NHSN, the National Healthcare Safety Network
- Describe key terms
- Discuss NHSN as both a surveillance system and the web-based platform used in California to achieve public reporting



What is NHSN?

- Began as a national voluntary, confidential surveillance system for monitoring health-associated events
 - Initial focus: risk-adjusted infection rates in patients
-and- management of HCW bloodborne disease exposures
 - Expansion: non-infectious events and more care settings
- Accessed through a secure, web-based interface
- Open to all US healthcare facilities at no charge



NHSN Strengths

- Provides **standards** for surveillance across healthcare facilities
- Data **risk-adjusted** for comparison to national data
- Web-based; data housed remotely; data quality checks
- Surveillance data **analysis** tools built into system
- Increasing adaptation to electronic reporting using national health record standards (e.g. HL7, CDA)
- Expandable to many health care settings



NHSN Limitations

- NHSN experience is with voluntary reporting
- Data validation methods in development
- Requires following all NHSN protocols (detailed, lengthy)
- Not easily integrated with electronic medical record for data import
- While training and support is provided by NHSN, its use is not as intuitive as initially assumed or hoped



NHSN for Mandatory Reporting

- Use required by CMS for reporting specific infections for Medicare and Medicaid reimbursement
- Use required by CDPH to meet state-mandated HAI reporting requirements



CMS Requirements for NHSN Reporting

8/1/2011

HAI Event	Facility Type	Start Date
CLABSI	Hospitals, All ICUs (Adult, Peds, NICU)	January 2011
CAUTI	Hospitals, Adult and Pediatric ICUs	January 2012
SSI	Hospitals, Colon surgery, Abd hyst	January 2012
I.V. antimicrobial start <i>(proposed)</i>	Dialysis Facilities	January 2012
Positive blood culture <i>(proposed)</i>	Dialysis Facilities	January 2012
Signs of vascular access inf <i>(proposed)</i>	Dialysis Facilities	January 2012
CAUTI	Inpatient Rehabilitation Facilities	October 2012
CLABSI <i>(proposed)</i>	Long Term Care Hospitals	October 2012
CAUTI <i>(proposed)</i>	Long Term Care Hospitals	October 2012
MRSA Bacteremia	Acute Care Hospitals, Facility-wide	January 2013
<i>C. difficile</i> LabID Event	Acute Care Hospitals, Facility-wide	January 2013
HCW Influenza Vaccination	Acute Hospitals, OP Surgery, ASCs	January 2013
SSI <i>(proposed)</i>	Outpatient Surgery/ASCs	January 2014

California Requirements for NHSN Reporting

HAI Event	General Acute Care Hospitals	Start Date
CLIP	All ICUs	July 2008
CLABSI	Facility-wide	April 2010
CDI	LabID, Facility-wide	April 2010
MRSA Bloodstream infection	General Acute Care Hospitals LabID, Facility-wide	April 2010
VRE Bloodstream infection	General Acute Care Hospitals LabID, Facility-wide	April 2010
SSI	General Acute Care Hospitals, CABG, Hip prosthesis	April 2011
SSI	29 Procedures per AFL 11-32	June 2011



NHSN Data Access

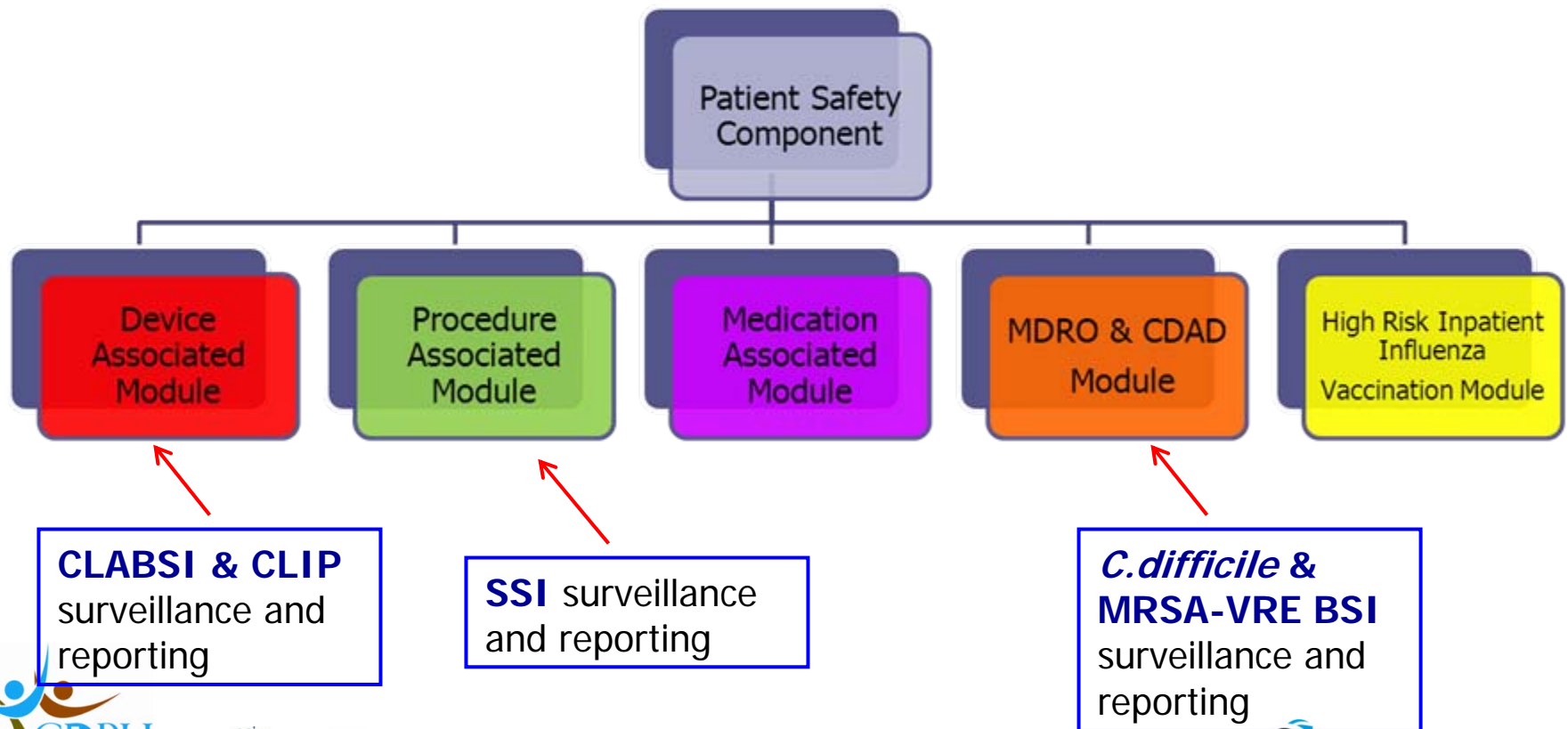
- Facilities own their NHSN surveillance data
 - May edit at any time to improve accuracy, completeness
- Facilities sign a data use agreement with CDC to allow CMS access to specific NHSN data
- Facilities can join one or more NHSN Group
 - CDPH (required to join), healthcare organization (e.g. Sutter, Kaiser), QIO-HSAG, CHART, others

Facilities confer rights for data access to the Group

- CDPH accesses data required by statute

Facilities within Group cannot see each other's data

National Healthcare Safety Network (NHSN)



National Healthcare Safety Network (NHSN)

The National Healthcare Safety Network (NHSN) is a secure, internet-based surveillance system that integrates and expands legacy patient and healthcare personnel safety surveillance systems managed by the Division of Healthcare Quality Promotion (DHQP) at CDC. NHSN also includes a new component for hospitals to monitor adverse reactions and incidents associated with receipt of blood and blood products. Enrollment is open to all types of healthcare facilities in the United States, including acute care hospitals, long term acute care hospitals, psychiatric hospitals, rehabilitation hospitals, outpatient dialysis centers, ambulatory surgery centers, and long term care facilities. For more information, click on the topics below.



Topics

Join NHSN

Welcome to NHSN, CMS Hospital Inpatient Quality Reporting Program Training...

Enrollment Requirements

Eligibility, Required Training, Reporting & System Requirements, Security, Begin Enrollment...

About NHSN

Overview, Purposes, Confidentiality statement, How data are used, External Peer Review report...

Training

Self-study slide sets and corresponding materials for NHSN modules...

Forms

Component-specific manuals containing data collection protocols, instructions for completing forms...

Patient Safety Component

Overview of the Modules: Device-associated, Procedure-associated, MDRO/CDAD, Vaccination...

NHSN Manuals

Component-specific manuals containing data collection protocols, instructions for completing forms...

Biovigilance Component

Hemovigilance Module Overview, Protocol and Tables of Instructions, Frequently Asked Questions...

Resource Library

Guides, Component Manuals, NHSN Codes & Variables, Protocols, Metrics, Frequently Asked Questions, HIPAA...

Healthcare Personnel Safety Component

Overview, Benefits of Participation, Management, Vaccination Modules...

Vaccination Module Update

The **HRIIV Module** has been replaced with the **Vaccination Module**. Please see Chapter 13 below.

Data & Statistics

States with Facilities Using NHSN (>3000 facilities)



CDC currently supports more than 3000 hospitals that are using NHSN and 22 states require hospitals to report HAI's using NHSN.

[More Data & Statistics »](#)

Clinical Document Architecture



Clinical Document Architecture (CDA) is a Health Level 7 (HL7) standard which provides framework for format of

Text size: [S](#) [M](#) [L](#) [XL](#)

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To receive email updates about NHSN, enter your email address:

[What's this?](#)

Contact NHSN:

Centers for Disease Control and Prevention
National Healthcare Safety Network
MS-A24
1600 Clifton Rd
Atlanta, GA 30333

800-CDC-INFO
(800-232-4636)
TTY: (888) 232-6348
New Hours of Operation
8am-8pm ET/Monday-Friday
Closed Holidays

nhsn@cdc.gov

[More contact info »](#)



[Join the conversation](#)



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NHSN Protocols

- *Know them!*
- *Use them!*



NHSN Forms Update

Vaccination Module Update

The **HRIIV Module** has been replaced with the **Vaccination Module**. Please see Chapter 13 below.

Table of Contents

1. [NHSN Overview](#) [PDF - 97 KB] June 2011
2. [Identifying Healthcare-associated Infections \(HAIs\) in NHSN](#) [PDF - 228 KB] June 2011
3. [Patient Safety Monthly Reporting Plan](#) [PDF - 163 KB] June 2011

Device-Associated Module

4. [Central Line-Associated Bloodstream Infection \(CLABSI\) Event](#) [PDF - 169 KB]
Guidelines and procedures for monitoring CLABSI. June 2011
5. [Central Line Insertion Practices \(CLIP\) Adherence](#) [PDF - 264 KB]
Guidelines and procedures for monitoring CLIP. June 2011 June 2011
6. [Ventilator-Associated Pneumonia \(VAP\) Event](#) [PDF - 567 KB]
Guidelines and procedures for monitoring VAP June 2011 June 2011
7. [Catheter-Associated Urinary Tract Infection \(CAUTI\) Event](#) [PDF - 968 KB]
Guidelines and procedures for monitoring CAUTI. August, 2011
8. [Dialysis Event Protocol](#) [PDF - 342 KB] June 2011
Guidelines and procedures for monitoring. June 2011

Procedure-Associated Module

9. [Surgical Site Infection \(SSI\) Event](#) [PDF - 205 KB]
Guidelines and procedures for monitoring SSI. August, 2011
10. [Post-Procedure Pneumonia \(PPP\) Event](#) [PDF - 66 KB] June 2011
Guidelines and procedures for monitoring PPP. June 2011

Medication-Associated Module

11. [Antimicrobial Use and Resistance \(AUR\) Option](#) [PDF - 214 KB] June 2011 June 2011

MDRO/CDAD Module

12. [Multidrug-Resistant Organism & Clostridium difficile Infection \(MDRO/CDI\) Module Protocol](#) [PDF - 228 KB] June 2011

Key Terms

NHSN inpatient

- Patient whose date of admission to the facility and date of discharge are different days

CDC Location / 80% rule

- Designation given to a patient care area housing patients who... are receiving care for similar medical or surgical specialties
- Determined by type of patients cared for in that area according to the **80% Rule**
 - if 80% of patients are of a certain type (e.g., critical burn patients), area is designated as that type of location (e.g. burn ICU)



Device day

- Daily count of patients with a specific device (e.g. central line, ventilator, foley)
- At the end of month, sum the daily counts
- Device days should be collected at the same time each day
- If from electronic data, counts should be within +/- 5% from manual counts

48-hour transfer rule

- If HAI develops within 48 hours of transfer from one inpatient location to another, infection is attributed to transferring (previous) location
- Likewise if HAI develops within 48 hours of discharge or transfer from one facility to another



Plus many more at www.cdc.gov/nhsn
See "Key Terms" in Patient Safety Manual

In NHSN, infection is not

- ❑ **Colonization** (presence of microorganisms on skin, mucous membranes, in open wounds, or in excretions or secretions but are not causing adverse clinical signs or symptoms)



Difference Between Clinical and Surveillance Definitions

- ❑ **Clinical criteria used by physicians for patient care and management may differ from surveillance criteria**
 - **Clinical**
 - Patient centered
 - Used for therapeutic decisions
 - **Surveillance**
 - Population based
 - Applied exactly the same way each time
 - Physician diagnosis of infection is acceptable for some infections

How to Join NHSN

The screenshot shows the CDC NHSN website in a Windows Internet Explorer browser. The address bar shows <http://www.cdc.gov/nhsn/>. The page title is "CDC - NHSN". The main content area is titled "National Healthcare Safety Network (NHSN)".

1. Bookmark NHSN website

2. Read this

3. Complete training modules

4. Follow enrollment directions to apply for a digital certificate

Facilities can only be enrolled ONCE in NHSN. Each user must obtain his/her own security access (i.e. digital certificate)

The website content includes the CDC logo, "Centers for Disease Control and Prevention", "CDC 24/7: Saving Lives. Protecting People. Saving Money through Prevention.", a search bar, and a navigation menu with letters A-Z. The main heading is "National Healthcare Safety Network (NHSN)". Below this, there is a paragraph describing NHSN as a secure, internet-based surveillance system managed by the Division of Healthcare Quality Promotion (DHQP) at CDC. It also mentions a new component for hospitals to report blood and blood products. Enrollment is open for acute care hospitals, long term acute care hospitals, dialysis centers, ambulatory surgery centers, and long term care facilities. For more information, users are directed to click on the "Topics" link.

The "Topics" section includes links to "Join NHSN", "Enrollment Requirements", "Training", "Patient Safety Committee", "About NHSN", and "Forms". The "Join NHSN" link is highlighted with a yellow box and an arrow pointing to it. The "Enrollment Requirements" link is also highlighted with a yellow box and an arrow pointing to it. The "Training" link is highlighted with a yellow box and an arrow pointing to it. The "Patient Safety Committee" link is highlighted with a yellow box and an arrow pointing to it. The "About NHSN" link is highlighted with a yellow box and an arrow pointing to it. The "Forms" link is highlighted with a yellow box and an arrow pointing to it.

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NHSN Facility Home Page

The screenshot shows a Windows Internet Explorer browser window titled "NHSN 6.4.2.4 Home Page - Windows Internet Explorer". The address bar displays "https://sdn7.cdc.gov/nhsn/nhsnMain.do". The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The Favorites bar shows links to "HAI Program" and "CDC Portal Login Page SDN". The page header features the CDC logo and the text "Department of Health and Human Services" and "Centers for Disease Control and Prevention". Below this, a blue navigation bar contains the text "NHSN - National Healthcare Safety Network" and links to "NHSN Home", "My Info", "Contact us", "Help", and "Log Out".

The main content area is titled "NHSN Patient Safety Component Home Page". It includes a message: "Logged into California General Hospital (ID 15633) as SUECHEN. Facility California General Hospital (ID 15633) is following the PS component." Below this, a section titled "Assurance of Confidentiality" states: "The voluntarily provided information obtained in this surveillance system that would permit identification of any individual or institution is collected with a guarantee that it will be held in strict confidence, will be used only for the purposes stated, and will not otherwise be disclosed or released without the consent of the individual, or the institution in accordance with Sections 304, 306 and 308(d) of the Public Health Service Act (42 USC 242b, 242k, and 242m(d))."

A red dashed box highlights a warning: "NHSN maintenance may occur nightly between 12am and 6am Eastern time." Below this, there is a link to "Get Adobe Acrobat Reader for PDF files" with a small Adobe Reader icon.

On the left side of the page, there is a vertical navigation menu with the following links: "NHSN Home", "Reporting Plan", "Patient", "Event", "Procedure", "Summary Data", "Import/Export", "Analysis", "Surveys", "Users", "Facility", "Group", and "Log Out".

Other users will see less on their screen and have correspondingly less access to NHSN elements



- NHSN Home
- Reporting Plan
- Patient
- Event
- Procedure
- Summary Data
- Import/Export
- Analysis**
 - Generate Data Sets
 - Output Options
 - Statistics Calculator
- Surveys
- Users
- Facility
- Group
- Log Out

Logged into California General Hospital (ID 15633) as SUECHEN.
Facility California General Hospital (ID 15633) is following the PS component.

Generate Data Sets

HELP

Generate Patient Safety Analysis Data Sets

Date Last Generated	Action
Jul 28 2011 2:13PM	<input type="button" value="Generate New"/>
The data set generation process will take several minutes. Do not logoff or close this window while the process is running. You may minimize the browser window and work in other applications while you wait.	
<input type="button" value="Back"/>	

Analysis

Generate Data Set: to “pull back” (from CDC data warehouse) your up-to-date facility data

Output Options: for analyzing your data; drop down menu opens; can select from canned reports (“CDC defined out put”) and other analysis tools

Statistical Calculator: to perform tests of significance for data comparisons (your data over time or to NHSN national data)

Patient Safety Component Analysis Output Options

- Device-Associated Module
 - All Device-Associated Events
 - Central Line-Associated BSI
 - CDC Defined Output
 - Ventilator-Associated PNEU
 - Urinary Catheter-Associated UTI
 - Central Line Insertion Practices
 - Dialysis Events
- Procedure-Associated Module
- MDRO/CDI Module - Infection Surveillance
- MDRO/CDI Module - LABID Event Reporting
- MDRO/CDI Module - Process Measures
- MDRO/CDI Module - Outcome Measures
- Vaccination Module
- Advanced
- My Custom Output
- Published Output

Patient Safety Component

Analysis Output Options

Expand All

Collapse All

Device-Associated Module

All Device-Associated Events

Central Line-Associated BSI

CDC Defined Output

Line Listing - All CLAB Events

Frequency Table - All CLAB Events

Bar Chart - All CLAB Events

Pie Chart - All CLAB Events

Rate Table - CLAB Data for ICU-Other

Control Chart - CLAB Data for ICU-Other

Rate Table - UCAB/CLAB Data for NICU

Control Chart - UCAB/CLAB Data for NICU

Rate Table - CLAB Data for National Healthcare Safety Network

Control Chart - CLAB Data for Line Listing for All Central Line-Associated BSI Events

Custom Output

Ventilator-Associated PNEU

Urinary Catheter-Associated UTI

Central Line Insertion Practices

Dialysis Events

CDC Defined Output options

Run Modify

Run Modify

Run Modify

Run Modify

Run Modify

Run Modify

Run Modify

Run Modify

CDC Defined Output: Line Listing

As of: November 3, 2009 at 9:04 AM

Date Range: All CLAB_EVENTS

orgID	patID	dob	gender	admitDate	eventID	eventDate	eventType	spcEvent	location
10018	7425	09/22/1961	M	06/06/2005	1676	06/11/2005	BSI	LCBI	BMT
10018	MD-4937	09/19/1922	F	05/30/2005	1678	06/21/2005	BSI	LCBI	BMT
10018	85613	04/18/1951	M	07/08/2005	1685	07/13/2005	BSI	LCBI	S-ICU
10018	10222	01/04/1978	F	08/01/2005	1927	08/08/2005	BSI	LCBI	MICU
10018	01-88-145	10/07/1939	M	03/17/2006	3321	03/21/2006	BSI	LCBI	S-ICU
10018	122-501	02/29/1952	M	02/21/2006	4265	02/23/2006	BSI	LCBI	S-ICU
10018	34-22-100	03/22/1940	M	03/12/2006	4789	03/20/2006	BSI	LCBI	MICU
10018	86-990-01	12/12/1926	M	03/10/2006	4798	03/14/2006	BSI	LCBI	S-ICU
10018	26-22-678	03/28/2006	M	03/28/2006	4800	03/31/2006	BSI	LCBI	NICU
10018	32-54-731	02/21/1959	M	03/06/2006	4820	03/09/2006	BSI	LCBI	S-ICU
10018	13-19	04/18/1934	F	03/07/2006	4821	03/16/2006	BSI	LCBI	MICU
10018	44-18-004	08/16/1944	F	02/11/2006	4824	02/21/2006	BSI	LCBI	MICU

CDC Defined Output: Line Listing

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Rate Table for Central Line-Associated BSI Data for ICU-Other												
2	Date Range: All CLAB_RATESICU												
3	Location	Summary Yr/Mon	CLA BSI Count	Central Line Days	CLA BSI Rate	NHSN CLAB Pooled Mean	Incidence Density p-value	Incidence Density Percentile	Patient Days	CL Util Ratio	NHSN Line DUPooled Mean	Proportion p-value	Proportion Percentile
4	Z-ICU	2010M07	0	250	0	1.5	0.6928	25	450	0.56	0.51	0.0182	72
5	Z-ICU	2010M08	4	300	13.3	1.5	0.0011	100	400	0.75	0.51	0	93
6	Z-ICU	2010M09	1	300	3.3	1.5	0.3562	87	325	0.92	0.51	0	96
7	Z-MED/SURG	2010M07	0	275	0	1.2	0.7218	50	400	0.69	0.16	0	100
8	Z-MED/SURG	2010M08	0	250	0	1.2	0.7435	50	425	0.59	0.16	0	100
9	Z-MED/SURG	2010M09	0	300	0	1.2	0.7007	50	550	0.55	0.16	0	100
10	Source of aggregate data: NHSN Report					Am J Infect Control 2009;37:783-805							

NHSN help is available from CDPH HAI Program

www.cdph.ca.gov/hai



Home Programs Services Health Information Certificates &

en Español

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- » Decisions Pending & Opportunities for Public Participation
- » Diseases & Conditions
- » Job Opportunities
- » Local Health Services
- » Newsroom
- » Public Availability of Documents

Related Links

- » California Health and Human Services Agency
- » Department of Health Care Services (includes Medi-Cal)
- » State Agencies Directory

Home > Programs > Healthcare Associated Infections Program

Healthcare Associated Infections (HAI) Program

The Healthcare Associated Infections (HAI) Program is one of three programs in the [Center for Health Care Quality](#) of the [California Department of Public Health](#). The Program is responsible for the surveillance and prevention of infections in California's general acute care hospitals as mandated by Senate Bills 739, 1058, and 158. The Program was authorized in December 2009.

HAIs are the most common complication of hospital care and are listed among the top ten leading causes of death in the United States. It is estimated that each year there are more than 1.7 million infections, 99,000 deaths, and \$3.1 billion dollars in excess healthcare costs in acute care hospitals alone. Based on this data it is estimated that approximately 200,000 patients develop infections in California hospitals each year with an annual cost of about \$600 million. The vision of the HAI Program is to eliminate HAI's for California patients.

With the assistance of a grant from the American Recovery and Reimbursement Act (ARRA) of 2009, Program staff are actively involved in assisting hospitals in infection surveillance, prevention and reporting procedures. The HAI Program is advised by a committee of healthcare professionals and public advocates from throughout California who recommend methods for publicly reporting cases of hospital acquired infections and process measures for preventing the spread of HAIs based on national guidelines.

Activities

- » Healthcare-associated Infections
- » Healthcare Personnel Influenza Vaccination
- » [Mandatory Reporting of SSI Prevention Measures \(PDF, New Window\)](#)
- » The California Antimicrobial Stewardship Program Initiative
- » California Antibogram Project Surveillance System
- » California's Model for Antimicrobial Stewardship: Legislation, Consultation, and Accountability
- » HAI Advisory Committee

Information for Infection Prevention Programs

- » AFLs, Legislation, and Regulations
- » [Healthcare Associated Infections and Infection Control Guidelines](#)
- » [NHSN Guidance Specific to California Hospitals](#)
- » [HAI Liaison IP Assignments by County \(PDF, New Window\)](#)

Information for Consumers

- » HAI Program Healthcare-associated Infections
- » Patient Guides to Healthcare Associated Infections
- » Influenza Vaccination Information for Consumers
- » [Snort Sniffle Sneeze: No Antibiotics Please \(New Window\)](#)

Contact

- » HAI Program

Infection-specific Public Reports

- » [Technical Report: Healthcare-associated Bloodstream Infections in California Hospitals -- 2009-2010 \(PDF, New Window\)](#)
- » [Brief Report: Healthcare-associated Clostridium difficile Infections in California Hospitals 2009-2010 \(PDF, New Window\)](#)

Healthcare Personnel Influenza Vaccination

- » [Current Reporting and Data Collection--Forms and Information](#)
Includes the Influenza Vaccination Surveillance Form for 2011-2012
- » [California Hospital Employee Influenza Vaccination Report -- 2009-2010 \(PDF, New Window\)](#)
- » [California Hospital Employee Influenza Vaccination Report -- 2008-2009 \(PDF, New Window\)](#)
- » [CDC-CDPH Pilot Project: Healthcare Personnel Influenza Vaccination Reporting](#)

Resources

- » [Center for Disease Control and Prevention \(CDC\)](#)
- » [Society for Healthcare Epidemiology of America \(SHEA\)](#)
- » [Association of Professionals in Infection Control and Hospital Epidemiology \(APIC\) \(New Window\)](#)

8 Requirements (PDF, New Window)

Includes tailored guides, slide sets, implementation tools

NHSN Guidance Specific to California Hospitals

Information for IPs

- [SSI Surveillance and Reporting_July 2011.pdf](#)
- [Using NHSN Analysis and SIR_July 2011 .pdf](#)
8MB
- [Procedure Import for SSI Surv_July 2011.pdf](#)
- [SSI Procedure Data Entry GUIDE \(PDF, 5.8MB, New Window\)](#)
- [Copy of Procedure Import WORKBOOK \(Excel, New Window\)](#)
- [How to Reassign Your NHSN Facility Administrator \(PDF\)](#)
- [California Monthly NHSN Reporting Requirements \(PDF, New Window\)](#)
- [CDPH Guide to Correctly Conferring Rights as of July 2010 \(PDF, New Window\)](#)
- [NHSN Set-up Guide \(PDF, New Window\)](#)

Resources

- [HAI Program Home Page](#)

Check back regularly for new materials!



August 20, 2010

NHSN Guide for California Hospitals: Setting-Up and Getting Started

California Department of Public Health Healthcare-Associated Infections (HAI) Program

This guide was developed to be used as a script for NHSN training demos and workshops. It is not intended to be comprehensive, but rather an outline describing an orderly approach to NHSN set-up and system basics.

The primary learning objectives of today's demo are to 1) familiarize you (the learner) with the NHSN system and web-interface, and 2) prepare your hospital for meeting California HAI mandatory reporting requirements.

California requires acute care hospitals to report through NHSN

- CLIP (ICU and level II nurseries only)
- CLABSI
- MRSA BSI
- VRE BSI and
- *C difficile* (CDAD / CDI)

In Summary

- NHSN is a surveillance system
 - It is also the platform for recording data, analyzing data, and reporting data to meet regulatory requirements
- This slide set provides only an introduction to NHSN
- Intent was not to provide every detail (you wouldn't remember anyway)
- Enough information to get you started
- Available resources
- The best way to begin NHSN surveillance?
 - Take a deep breath and just start
 - Find a mentor
 - Consult with your designated HAI Program Liaison IP



Questions?

For more information, please contact any
HAI Liaison Team member

Thank you

